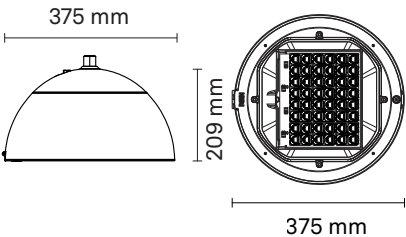


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Ordering Information / Guide

Example: LUNOVS0-N-D28-730-L025-ST-V1-F02-M2-CW0

Optique	Ra+K	Luminous flux	Screen finish	Power supply	Driver Function	ISO Class	Finish
D28 Type I - Center road	722 Ra70 2200 K	L015 1500 lm	ST Transparent	V1 220V-240V	F02 1-10V+CLO	M2 Class II	CW0 White [RAL 9010] Matt
D36 Type II - Asymmetric	727 Ra70 2700 K	L025 2500 lm	SP Prismatic		F06 DALI+CLO		
D22 Type III - B	730 Ra70 3000 K	L035 3500 lm			F14 NVL6H+CLO		
D25 Type III - C	740 Ra70 4000 K	L045 4500 lm					
D37 Type III - Asymmetric		L060 6000 lm					
D24 Type IV - Forward throw		L075 7500 lm					
D38 Type IV - C		L090 9000 lm					
D30 Type V - Rotosymmetric		L105 10500 lm					
		L120 12000 lm					

Generated code: LUNOVS0 - N - _ _ _ _ - _ _ _ _ - _ _ _ _ - _ _ _ _

CONFIGURATION NOTES
The product features shown in this datasheet cannot always be freely combined.
To verify the configurations actually available and define the corresponding product code, please use the configurator available on our website.

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SOURCE

High-power LED matrix.	
Energy-efficiency class	C, D, E
LED forward current	176-710 mA
Power rating	7.4-69.8 W
Nominal Flux	1500-12000 lm
Nominal CCT (Colour temperature)	2200 K, 2700 K, 3000 K, 4000 K
Color Rendering Index (Ra)	70
Standard Deviation Colour Matching	≤5
ANSI/IES TM-30	Rf = 73-78 Rg = 91-96
Rated lifetime	L90B10 100000 h @ Tq = 25 °C

LIGHTING CHARACTERISTICS

Modular 2x2 refractive lenses in PMMA.	
Optique	Type I - Center road, Type II - Asymmetric, Type III - B, Type III - C, Type III - Asymmetric, Type IV - Forward throw, Type IV - C, Type V - Rotosymmetric
Optical efficiency	LOR = 100% ULOR = 0%
LED quantity	16, 24, 32, 48
Cutoff Angle	Cutoff, Non Cutoff, Semi Cutoff C = 0, 55° γ = 46, 70°
Luminous flux	1500-12000 lm
Luminous efficacy	125-168 lm/W
Luminous intensity class	G*2, G*4, G*6
IPEA	Road A6+ / A11+, Urban A6+ / A12+, Ped A5+ / A11+, Park A5+ / A11+, Art A9+ / A12+
BUG	B=0-3, U=0, G=0-3
Photobiological safety	RG1 - Low risk

ELECTRICAL CHARACTERISTICS

ENEC safety mark.	
Luminaire power	10.2-77.6 W
Power supply	220V-240V~ 50/60Hz
Power factor	≥0.99
Insulation class	Class II
Control type - driver	1-10V+CLO, DALI+CLO, NVL6H+CLO PstLM=<1 e SVM=<0,4 (IEC TR 61547-1 e IEC TR 63158)
Safe Flicker	
Ambient temperature	-35 °C / +40 °C
Driver included	Yes
Surge protection	10kV CM - 10kV DM

MECHANICAL CHARACTERISTICS

Structure made of die-cast aluminium (UNI EN 1706) with a bell-shaped upper frame equipped with a G3/4” threaded mounting tube and a skirted lower frame openable via hinge for access to the auxiliary and optical compartment.	
Protective screen in extra-clear or prismatic tempered glass with IK10/IK07 impact resistance (EN 62262) and white internal reflector.	
Stainless steel fastening elements, osmotic valve for pressure balancing, and compartment prepared for remote control systems.	
Diameter	375 mm
Height	209 mm
Weight	10.5 kg
Wind-exposed area	0.03 m²
Protection degree	IP66
Mechanical resistance	IK10
Finish	White [RAL 9010] Matt

INSTALLATION

Suspended: threaded connection G3/4”.

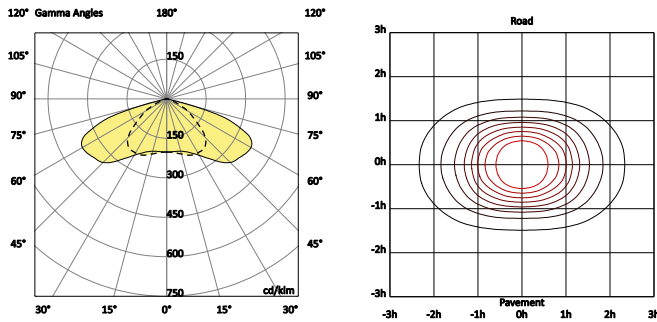
WARNINGS

Luminaire designed for disposal/recycling at end-of-life.
Replaceable (LED only) light source by a professional.
Replaceable control gear by a professional.
Protection of surfaces: please refer to the specification on painting procedures of the materials.

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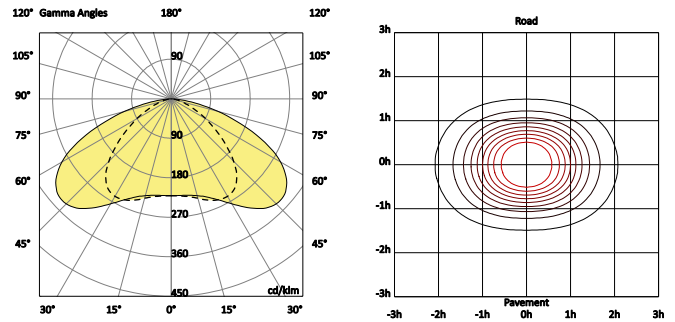
Optic: Type I - Center road

Screen finish: Transparent



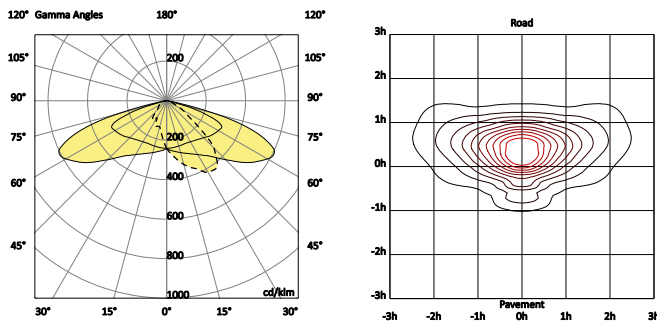
Optic: Type I - Center road

Screen finish: Prismatic



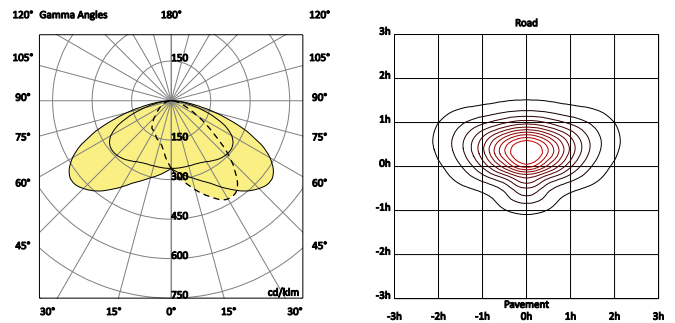
Optic: Type II - Asymmetric

Screen finish: Transparent



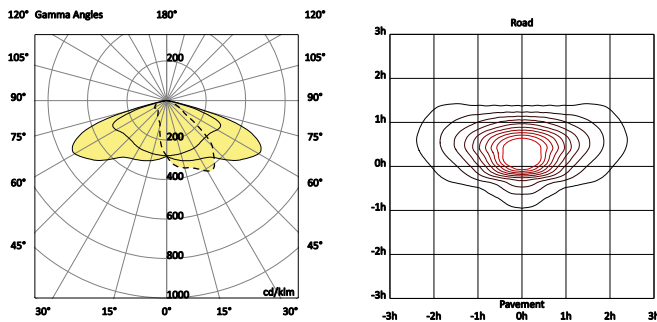
Optic: Type II - Asymmetric

Screen finish: Prismatic



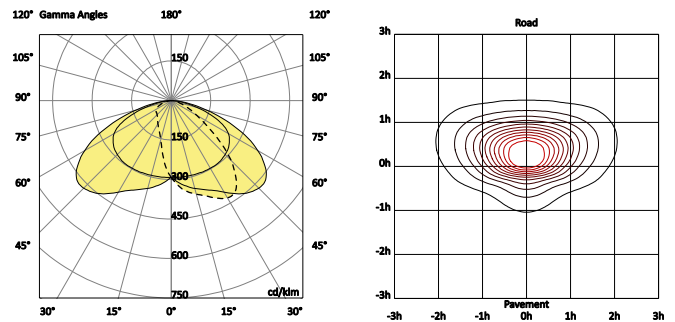
Optic: Type III - B

Screen finish: Transparent



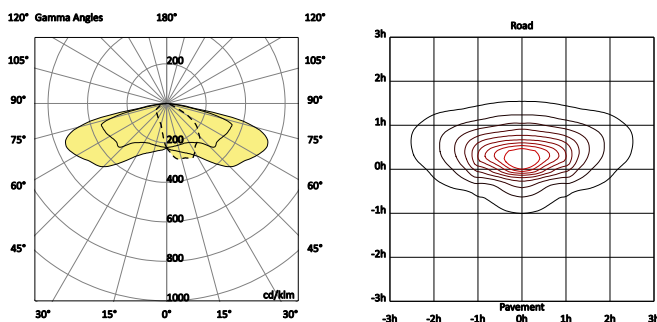
Optic: Type III - B

Screen finish: Prismatic



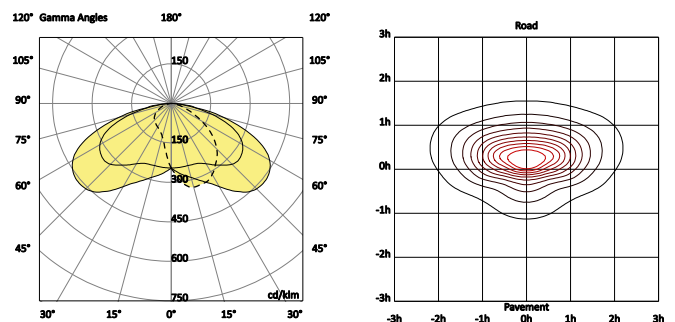
Optic: Type III - C

Screen finish: Transparent



Optic: Type III - C

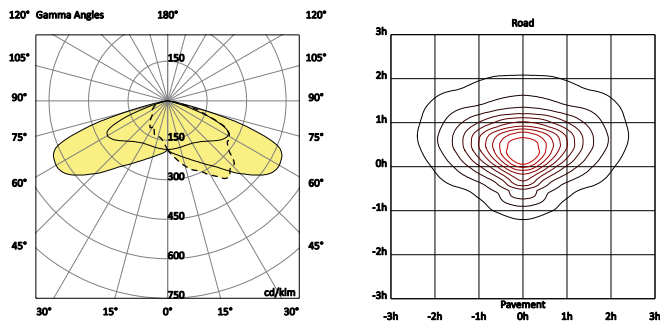
Screen finish: Prismatic



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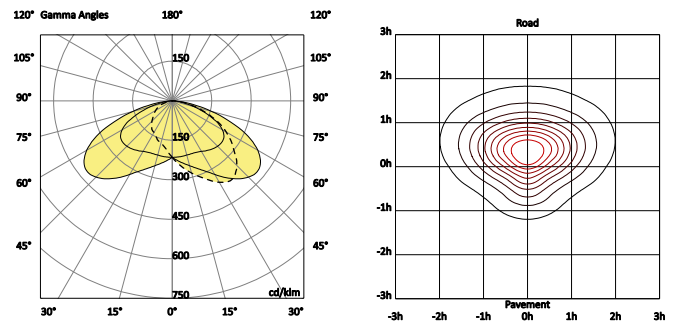
Optic: Type III - Asymmetric

Screen finish: Transparent



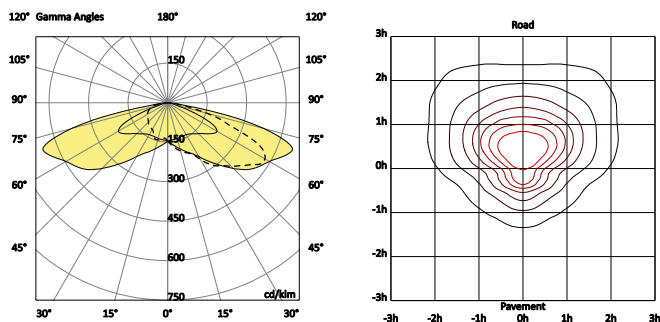
Optic: Type III - Asymmetric

Screen finish: Prismatic



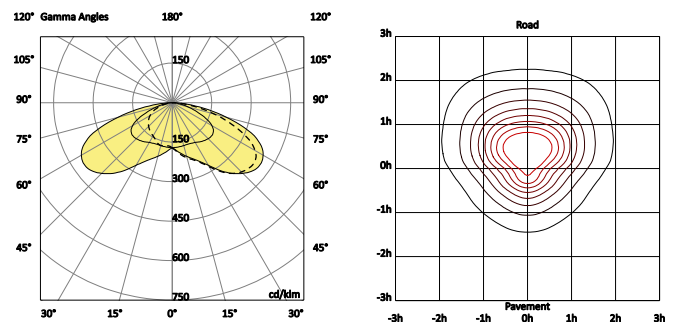
Optic: Type IV - Forward throw

Screen finish: Transparent



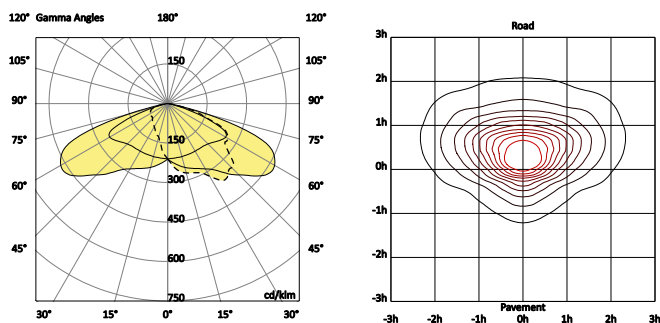
Optic: Type IV - Forward throw

Screen finish: Prismatic



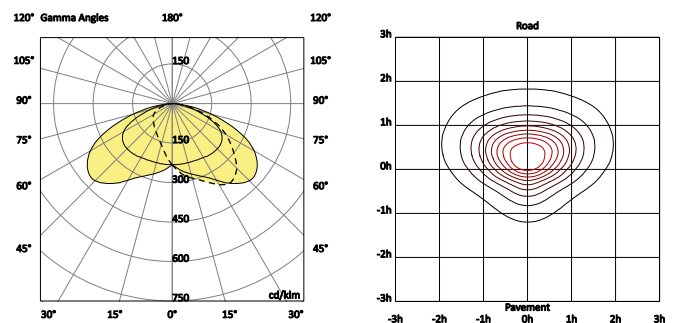
Optic: Type IV - C

Screen finish: Transparent



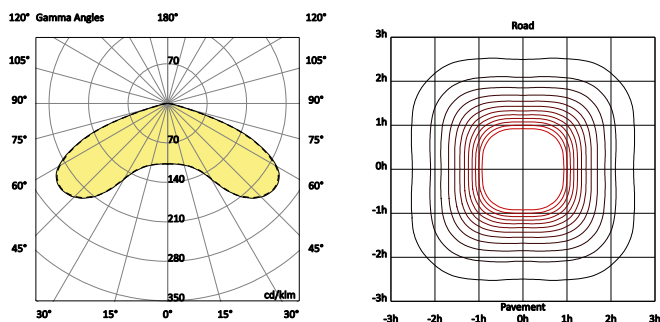
Optic: Type IV - C

Screen finish: Prismatic



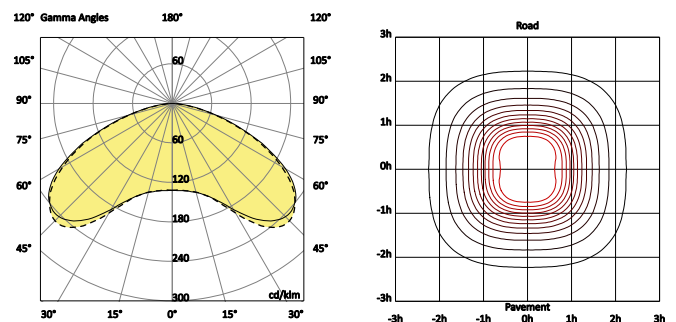
Optic: Type V - Rotosymmetric

Screen finish: Transparent



Optic: Type V - Rotosymmetric

Screen finish: Prismatic



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Optic: Type I - Center road

Screen finish: Transparent

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
1500 lm	2200 K	12	125	16	208	8.9	169	A6+	A6+	A5+	A5+	A9+
1500 lm	2700 K	11	136	16	188	8	188	A7+	A8+	A7+	A7+	A11+
1500 lm	3000 K	10.7	140	16	184	7.8	192	A8+	A9+	A7+	A7+	A12+
1500 lm	4000 K	10.2	147	16	176	7.4	203	A9+	A10+	A8+	A8+	A12+
2500 lm	2200 K	19	132	16	354	15.3	163	A7+	A7+	A6+	A6+	A10+
2500 lm	2700 K	17.3	145	16	318	13.7	182	A8+	A9+	A8+	A8+	A12+
2500 lm	3000 K	17	147	16	310	13.4	187	A9+	A10+	A8+	A8+	A12+
2500 lm	4000 K	16.3	153	16	296	12.7	197	A10+	A10+	A9+	A9+	A12+
3500 lm	2200 K	26	135	16	506	22.2	158	A7+	A8+	A6+	A6+	A11+
3500 lm	2700 K	23.7	148	16	454	19.9	176	A9+	A10+	A8+	A8+	A12+
3500 lm	3000 K	23.1	152	16	442	19.3	181	A9+	A10+	A9+	A9+	A12+
3500 lm	4000 K	22.2	158	16	422	18.4	190	A10+	A11+	A10+	A10+	A12+
4500 lm	2200 K	31.8	142	24	428	28.1	160	A8+	A9+	A7+	A7+	A12+
4500 lm	2700 K	30.1	150	16	596	26.4	170	A9+	A10+	A8+	A8+	A12+
4500 lm	3000 K	29.3	154	16	578	25.6	176	A10+	A10+	A9+	A9+	A12+
4500 lm	4000 K	28.1	160	16	552	24.4	184	A10+	A11+	A10+	A10+	A12+
6000 lm	2200 K	44.4	135	24	584	38.8	155	A7+	A8+	A7+	A7+	A11+
6000 lm	2700 K	38.6	155	24	524	34.6	173	A10+	A11+	A9+	A9+	A12+
6000 lm	3000 K	37.5	160	24	510	33.6	179	A10+	A11+	A10+	A10+	A12+
6000 lm	4000 K	35.8	168	24	486	32	188	A11+	A12+	A11+	A11+	A12+
7500 lm	2200 K	54	139	32	544	48.1	156	A8+	A8+	A7+	A7+	A12+
7500 lm	2700 K	50.6	148	24	668	44.8	167	A9+	A10+	A8+	A8+	A12+
7500 lm	3000 K	49.2	152	24	650	43.4	173	A9+	A10+	A9+	A9+	A12+
7500 lm	4000 K	46.9	160	24	618	41.2	182	A10+	A11+	A10+	A10+	A12+
9000 lm	2200 K	65.6	137	32	664	59.3	152	A7+	A8+	A6+	A6+	A11+
9000 lm	2700 K	58.8	153	32	596	52.8	170	A9+	A10+	A9+	A9+	A12+
9000 lm	3000 K	57.3	157	32	578	51.3	175	A10+	A11+	A9+	A9+	A12+
9000 lm	4000 K	54.6	165	32	552	48.7	185	A11+	A12+	A10+	A10+	A12+
10500 lm	2200 K	74.4	141	48	506	66.7	157	A7+	A9+	A6+	A6+	A12+
10500 lm	2700 K	69.7	151	32	706	63.2	166	A9+	A10+	A7+	A7+	A12+
10500 lm	3000 K	67.7	155	32	686	61.3	171	A9+	A11+	A8+	A8+	A12+
10500 lm	4000 K	64.5	163	32	652	58.2	180	A11+	A12+	A10+	A10+	A12+
12000 lm	2700 K	77	156	48	524	69.3	173	A9+	A11+	A8+	A8+	A12+
12000 lm	3000 K	74.9	160	48	510	67.3	178	A10+	A11+	A9+	A9+	A12+
12000 lm	4000 K	71.6	168	48	486	64	188	A11+	A12+	A9+	A9+	A12+

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Optic: Type I - Center road

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
1500 lm	2200 K	12	125	16	210	8.9	169	A6+	A6+	A5+	A5+	A9+
1500 lm	2700 K	11	136	16	190	8	188	A7+	A8+	A7+	A7+	A11+
1500 lm	3000 K	10.7	140	16	184	7.8	192	A8+	A9+	A7+	A7+	A12+
1500 lm	4000 K	10.4	144	16	176	7.5	200	A8+	A9+	A8+	A8+	A12+
2500 lm	2200 K	19.1	131	16	356	15.4	162	A6+	A7+	A6+	A6+	A10+
2500 lm	2700 K	17.4	144	16	320	13.8	181	A8+	A9+	A8+	A8+	A12+
2500 lm	3000 K	17	147	16	312	13.4	187	A9+	A10+	A8+	A8+	A12+
2500 lm	4000 K	16.4	152	16	298	12.8	195	A9+	A10+	A9+	A9+	A12+
3500 lm	2200 K	26.2	134	16	508	22.4	156	A7+	A8+	A6+	A6+	A11+
3500 lm	2700 K	23.8	147	16	458	20	175	A9+	A10+	A8+	A8+	A12+
3500 lm	3000 K	23.2	151	16	444	19.4	180	A9+	A10+	A9+	A9+	A12+
3500 lm	4000 K	22.3	157	16	424	18.5	189	A10+	A11+	A9+	A9+	A12+
4500 lm	2200 K	32	141	24	432	28.3	159	A8+	A9+	A7+	A7+	A12+
4500 lm	2700 K	30.3	149	16	600	26.6	169	A9+	A10+	A8+	A8+	A12+
4500 lm	3000 K	29.5	153	16	582	25.8	174	A9+	A10+	A9+	A9+	A12+
4500 lm	4000 K	28.2	160	16	556	24.5	184	A10+	A11+	A10+	A10+	A12+
6000 lm	2200 K	44.7	134	24	588	39.1	153	A7+	A8+	A6+	A6+	A11+
6000 lm	2700 K	39	154	24	528	34.9	172	A10+	A10+	A9+	A9+	A12+
6000 lm	3000 K	37.9	158	24	514	33.9	177	A10+	A11+	A10+	A10+	A12+
6000 lm	4000 K	36.1	166	24	490	32.2	186	A11+	A12+	A11+	A11+	A12+
7500 lm	2200 K	54.3	138	32	548	48.4	155	A7+	A8+	A7+	A7+	A12+
7500 lm	2700 K	50.9	147	24	674	45.1	166	A9+	A10+	A8+	A8+	A12+
7500 lm	3000 K	49.5	152	24	654	43.7	172	A9+	A10+	A9+	A9+	A12+
7500 lm	4000 K	47.3	159	24	622	41.6	180	A10+	A11+	A10+	A10+	A12+
9000 lm	2200 K	66	136	32	668	59.7	151	A7+	A8+	A6+	A6+	A11+
9000 lm	2700 K	59.2	152	32	600	53.2	169	A9+	A10+	A9+	A9+	A12+
9000 lm	3000 K	57.7	156	32	582	51.7	174	A10+	A11+	A9+	A9+	A12+
9000 lm	4000 K	55	164	32	556	49.1	183	A11+	A12+	A10+	A10+	A12+
10500 lm	2200 K	74.8	140	48	508	67.2	156	A7+	A9+	A6+	A6+	A12+
10500 lm	2700 K	70.2	150	32	710	63.7	165	A8+	A10+	A7+	A7+	A12+
10500 lm	3000 K	68.1	154	32	690	61.7	170	A9+	A11+	A8+	A8+	A12+
10500 lm	4000 K	64.8	162	32	658	58.6	179	A11+	A12+	A10+	A10+	A12+
12000 lm	2700 K	77.6	155	48	528	69.8	172	A9+	A11+	A8+	A8+	A12+
12000 lm	3000 K	75.5	159	48	514	67.8	177	A10+	A11+	A8+	A8+	A12+
12000 lm	4000 K	72	167	48	490	64.4	186	A11+	A12+	A9+	A9+	A12+

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Optic: Type II - Asymmetric

Screen finish: Transparent

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
1500 lm	2200 K	12	125	16	208	8.9	169	A6+	A6+	A5+	A5+	A9+
1500 lm	2700 K	11	136	16	188	8	188	A7+	A8+	A7+	A7+	A11+
1500 lm	3000 K	10.7	140	16	184	7.8	192	A8+	A9+	A7+	A7+	A12+
1500 lm	4000 K	10.2	147	16	176	7.4	203	A9+	A10+	A8+	A8+	A12+
2500 lm	2200 K	19	132	16	354	15.3	163	A7+	A7+	A6+	A6+	A10+
2500 lm	2700 K	17.3	145	16	318	13.7	182	A8+	A9+	A8+	A8+	A12+
2500 lm	3000 K	17	147	16	310	13.4	187	A9+	A10+	A8+	A8+	A12+
2500 lm	4000 K	16.3	153	16	296	12.7	197	A10+	A10+	A9+	A9+	A12+
3500 lm	2200 K	26	135	16	506	22.2	158	A7+	A8+	A6+	A6+	A11+
3500 lm	2700 K	23.7	148	16	454	19.9	176	A9+	A10+	A8+	A8+	A12+
3500 lm	3000 K	23.1	152	16	442	19.3	181	A9+	A10+	A9+	A9+	A12+
3500 lm	4000 K	22.2	158	16	422	18.4	190	A10+	A11+	A10+	A10+	A12+
4500 lm	2200 K	31.8	142	24	428	28.1	160	A8+	A9+	A7+	A7+	A12+
4500 lm	2700 K	30.1	150	16	596	26.4	170	A9+	A10+	A8+	A8+	A12+
4500 lm	3000 K	29.3	154	16	578	25.6	176	A10+	A10+	A9+	A9+	A12+
4500 lm	4000 K	28.1	160	16	552	24.4	184	A10+	A11+	A10+	A10+	A12+
6000 lm	2200 K	44.4	135	24	584	38.8	155	A7+	A8+	A7+	A7+	A11+
6000 lm	2700 K	38.6	155	24	524	34.6	173	A10+	A11+	A9+	A9+	A12+
6000 lm	3000 K	37.5	160	24	510	33.6	179	A10+	A11+	A10+	A10+	A12+
6000 lm	4000 K	35.8	168	24	486	32	188	A11+	A12+	A11+	A11+	A12+
7500 lm	2200 K	54	139	32	544	48.1	156	A8+	A8+	A7+	A7+	A12+
7500 lm	2700 K	50.6	148	24	668	44.8	167	A9+	A10+	A8+	A8+	A12+
7500 lm	3000 K	49.2	152	24	650	43.4	173	A9+	A10+	A9+	A9+	A12+
7500 lm	4000 K	46.9	160	24	618	41.2	182	A10+	A11+	A10+	A10+	A12+
9000 lm	2200 K	65.6	137	32	664	59.3	152	A7+	A8+	A6+	A6+	A11+
9000 lm	2700 K	58.8	153	32	596	52.8	170	A9+	A10+	A9+	A9+	A12+
9000 lm	3000 K	57.3	157	32	578	51.3	175	A10+	A11+	A9+	A9+	A12+
9000 lm	4000 K	54.6	165	32	552	48.7	185	A11+	A12+	A10+	A10+	A12+
10500 lm	2200 K	74.4	141	48	506	66.7	157	A7+	A9+	A6+	A6+	A12+
10500 lm	2700 K	69.7	151	32	706	63.2	166	A9+	A10+	A7+	A7+	A12+
10500 lm	3000 K	67.7	155	32	686	61.3	171	A9+	A11+	A8+	A8+	A12+
10500 lm	4000 K	64.5	163	32	652	58.2	180	A11+	A12+	A10+	A10+	A12+
12000 lm	2700 K	77	156	48	524	69.3	173	A9+	A11+	A8+	A8+	A12+
12000 lm	3000 K	74.9	160	48	510	67.3	178	A10+	A11+	A9+	A9+	A12+
12000 lm	4000 K	71.6	168	48	486	64	188	A11+	A12+	A9+	A9+	A12+

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Optic: Type II - Asymmetric

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
1500 lm	2200 K	12	125	16	210	8.9	169	A6+	A6+	A5+	A5+	A9+
1500 lm	2700 K	11	136	16	190	8	188	A7+	A8+	A7+	A7+	A11+
1500 lm	3000 K	10.7	140	16	184	7.8	192	A8+	A9+	A7+	A7+	A12+
1500 lm	4000 K	10.4	144	16	176	7.5	200	A8+	A9+	A8+	A8+	A12+
2500 lm	2200 K	19.1	131	16	356	15.4	162	A6+	A7+	A6+	A6+	A10+
2500 lm	2700 K	17.4	144	16	320	13.8	181	A8+	A9+	A8+	A8+	A12+
2500 lm	3000 K	17	147	16	312	13.4	187	A9+	A10+	A8+	A8+	A12+
2500 lm	4000 K	16.4	152	16	298	12.8	195	A9+	A10+	A9+	A9+	A12+
3500 lm	2200 K	26.2	134	16	508	22.4	156	A7+	A8+	A6+	A6+	A11+
3500 lm	2700 K	23.8	147	16	458	20	175	A9+	A10+	A8+	A8+	A12+
3500 lm	3000 K	23.2	151	16	444	19.4	180	A9+	A10+	A9+	A9+	A12+
3500 lm	4000 K	22.3	157	16	424	18.5	189	A10+	A11+	A9+	A9+	A12+
4500 lm	2200 K	32	141	24	432	28.3	159	A8+	A9+	A7+	A7+	A12+
4500 lm	2700 K	30.3	149	16	600	26.6	169	A9+	A10+	A8+	A8+	A12+
4500 lm	3000 K	29.5	153	16	582	25.8	174	A9+	A10+	A9+	A9+	A12+
4500 lm	4000 K	28.2	160	16	556	24.5	184	A10+	A11+	A10+	A10+	A12+
6000 lm	2200 K	44.7	134	24	588	39.1	153	A7+	A8+	A6+	A6+	A11+
6000 lm	2700 K	39	154	24	528	34.9	172	A10+	A10+	A9+	A9+	A12+
6000 lm	3000 K	37.9	158	24	514	33.9	177	A10+	A11+	A10+	A10+	A12+
6000 lm	4000 K	36.1	166	24	490	32.2	186	A11+	A12+	A11+	A11+	A12+
7500 lm	2200 K	54.3	138	32	548	48.4	155	A7+	A8+	A7+	A7+	A12+
7500 lm	2700 K	50.9	147	24	674	45.1	166	A9+	A10+	A8+	A8+	A12+
7500 lm	3000 K	49.5	152	24	654	43.7	172	A9+	A10+	A9+	A9+	A12+
7500 lm	4000 K	47.3	159	24	622	41.6	180	A10+	A11+	A10+	A10+	A12+
9000 lm	2200 K	66	136	32	668	59.7	151	A7+	A8+	A6+	A6+	A11+
9000 lm	2700 K	59.2	152	32	600	53.2	169	A9+	A10+	A9+	A9+	A12+
9000 lm	3000 K	57.7	156	32	582	51.7	174	A10+	A11+	A9+	A9+	A12+
9000 lm	4000 K	55	164	32	556	49.1	183	A11+	A12+	A10+	A10+	A12+
10500 lm	2200 K	74.8	140	48	508	67.2	156	A7+	A9+	A6+	A6+	A12+
10500 lm	2700 K	70.2	150	32	710	63.7	165	A8+	A10+	A7+	A7+	A12+
10500 lm	3000 K	68.1	154	32	690	61.7	170	A9+	A11+	A8+	A8+	A12+
10500 lm	4000 K	64.8	162	32	658	58.6	179	A11+	A12+	A10+	A10+	A12+
12000 lm	2700 K	77.6	155	48	528	69.8	172	A9+	A11+	A8+	A8+	A12+
12000 lm	3000 K	75.5	159	48	514	67.8	177	A10+	A11+	A8+	A8+	A12+
12000 lm	4000 K	72	167	48	490	64.4	186	A11+	A12+	A9+	A9+	A12+

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Optic: Type III - B

Screen finish: Transparent

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
1500 lm	2200 K	12	125	16	208	8.9	169	A6+	A6+	A5+	A5+	A9+
1500 lm	2700 K	11	136	16	188	8	188	A7+	A8+	A7+	A7+	A11+
1500 lm	3000 K	10.7	140	16	184	7.8	192	A8+	A9+	A7+	A7+	A12+
1500 lm	4000 K	10.2	147	16	176	7.4	203	A9+	A10+	A8+	A8+	A12+
2500 lm	2200 K	19	132	16	354	15.3	163	A7+	A7+	A6+	A6+	A10+
2500 lm	2700 K	17.3	145	16	318	13.7	182	A8+	A9+	A8+	A8+	A12+
2500 lm	3000 K	17	147	16	310	13.4	187	A9+	A10+	A8+	A8+	A12+
2500 lm	4000 K	16.3	153	16	296	12.7	197	A10+	A10+	A9+	A9+	A12+
3500 lm	2200 K	26	135	16	506	22.2	158	A7+	A8+	A6+	A6+	A11+
3500 lm	2700 K	23.7	148	16	454	19.9	176	A9+	A10+	A8+	A8+	A12+
3500 lm	3000 K	23.1	152	16	442	19.3	181	A9+	A10+	A9+	A9+	A12+
3500 lm	4000 K	22.2	158	16	422	18.4	190	A10+	A11+	A10+	A10+	A12+
4500 lm	2200 K	31.8	142	24	428	28.1	160	A8+	A9+	A7+	A7+	A12+
4500 lm	2700 K	30.1	150	16	596	26.4	170	A9+	A10+	A8+	A8+	A12+
4500 lm	3000 K	29.3	154	16	578	25.6	176	A10+	A10+	A9+	A9+	A12+
4500 lm	4000 K	28.1	160	16	552	24.4	184	A10+	A11+	A10+	A10+	A12+
6000 lm	2200 K	44.4	135	24	584	38.8	155	A7+	A8+	A7+	A7+	A11+
6000 lm	2700 K	38.6	155	24	524	34.6	173	A10+	A11+	A9+	A9+	A12+
6000 lm	3000 K	37.5	160	24	510	33.6	179	A10+	A11+	A10+	A10+	A12+
6000 lm	4000 K	35.8	168	24	486	32	188	A11+	A12+	A11+	A11+	A12+
7500 lm	2200 K	54	139	32	544	48.1	156	A8+	A8+	A7+	A7+	A12+
7500 lm	2700 K	50.6	148	24	668	44.8	167	A9+	A10+	A8+	A8+	A12+
7500 lm	3000 K	49.2	152	24	650	43.4	173	A9+	A10+	A9+	A9+	A12+
7500 lm	4000 K	46.9	160	24	618	41.2	182	A10+	A11+	A10+	A10+	A12+
9000 lm	2200 K	65.6	137	32	664	59.3	152	A7+	A8+	A6+	A6+	A11+
9000 lm	2700 K	58.8	153	32	596	52.8	170	A9+	A10+	A9+	A9+	A12+
9000 lm	3000 K	57.3	157	32	578	51.3	175	A10+	A11+	A9+	A9+	A12+
9000 lm	4000 K	54.6	165	32	552	48.7	185	A11+	A12+	A10+	A10+	A12+
10500 lm	2200 K	74.4	141	48	506	66.7	157	A7+	A9+	A6+	A6+	A12+
10500 lm	2700 K	69.7	151	32	706	63.2	166	A9+	A10+	A7+	A7+	A12+
10500 lm	3000 K	67.7	155	32	686	61.3	171	A9+	A11+	A8+	A8+	A12+
10500 lm	4000 K	64.5	163	32	652	58.2	180	A11+	A12+	A10+	A10+	A12+
12000 lm	2700 K	77	156	48	524	69.3	173	A9+	A11+	A8+	A8+	A12+
12000 lm	3000 K	74.9	160	48	510	67.3	178	A10+	A11+	A9+	A9+	A12+
12000 lm	4000 K	71.6	168	48	486	64	188	A11+	A12+	A9+	A9+	A12+

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Optic: Type III - B

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
1500 lm	2200 K	12	125	16	210	8.9	169	A6+	A6+	A5+	A5+	A9+
1500 lm	2700 K	11	136	16	190	8	188	A7+	A8+	A7+	A7+	A11+
1500 lm	3000 K	10.7	140	16	184	7.8	192	A8+	A9+	A7+	A7+	A12+
1500 lm	4000 K	10.4	144	16	176	7.5	200	A8+	A9+	A8+	A8+	A12+
2500 lm	2200 K	19.1	131	16	356	15.4	162	A6+	A7+	A6+	A6+	A10+
2500 lm	2700 K	17.4	144	16	320	13.8	181	A8+	A9+	A8+	A8+	A12+
2500 lm	3000 K	17	147	16	312	13.4	187	A9+	A10+	A8+	A8+	A12+
2500 lm	4000 K	16.4	152	16	298	12.8	195	A9+	A10+	A9+	A9+	A12+
3500 lm	2200 K	26.2	134	16	508	22.4	156	A7+	A8+	A6+	A6+	A11+
3500 lm	2700 K	23.8	147	16	458	20	175	A9+	A10+	A8+	A8+	A12+
3500 lm	3000 K	23.2	151	16	444	19.4	180	A9+	A10+	A9+	A9+	A12+
3500 lm	4000 K	22.3	157	16	424	18.5	189	A10+	A11+	A9+	A9+	A12+
4500 lm	2200 K	32	141	24	432	28.3	159	A8+	A9+	A7+	A7+	A12+
4500 lm	2700 K	30.3	149	16	600	26.6	169	A9+	A10+	A8+	A8+	A12+
4500 lm	3000 K	29.5	153	16	582	25.8	174	A9+	A10+	A9+	A9+	A12+
4500 lm	4000 K	28.2	160	16	556	24.5	184	A10+	A11+	A10+	A10+	A12+
6000 lm	2200 K	44.7	134	24	588	39.1	153	A7+	A8+	A6+	A6+	A11+
6000 lm	2700 K	39	154	24	528	34.9	172	A10+	A10+	A9+	A9+	A12+
6000 lm	3000 K	37.9	158	24	514	33.9	177	A10+	A11+	A10+	A10+	A12+
6000 lm	4000 K	36.1	166	24	490	32.2	186	A11+	A12+	A11+	A11+	A12+
7500 lm	2200 K	54.3	138	32	548	48.4	155	A7+	A8+	A7+	A7+	A12+
7500 lm	2700 K	50.9	147	24	674	45.1	166	A9+	A10+	A8+	A8+	A12+
7500 lm	3000 K	49.5	152	24	654	43.7	172	A9+	A10+	A9+	A9+	A12+
7500 lm	4000 K	47.3	159	24	622	41.6	180	A10+	A11+	A10+	A10+	A12+
9000 lm	2200 K	66	136	32	668	59.7	151	A7+	A8+	A6+	A6+	A11+
9000 lm	2700 K	59.2	152	32	600	53.2	169	A9+	A10+	A9+	A9+	A12+
9000 lm	3000 K	57.7	156	32	582	51.7	174	A10+	A11+	A9+	A9+	A12+
9000 lm	4000 K	55	164	32	556	49.1	183	A11+	A12+	A10+	A10+	A12+
10500 lm	2200 K	74.8	140	48	508	67.2	156	A7+	A9+	A6+	A6+	A12+
10500 lm	2700 K	70.2	150	32	710	63.7	165	A8+	A10+	A7+	A7+	A12+
10500 lm	3000 K	68.1	154	32	690	61.7	170	A9+	A11+	A8+	A8+	A12+
10500 lm	4000 K	64.8	162	32	658	58.6	179	A11+	A12+	A10+	A10+	A12+
12000 lm	2700 K	77.6	155	48	528	69.8	172	A9+	A11+	A8+	A8+	A12+
12000 lm	3000 K	75.5	159	48	514	67.8	177	A10+	A11+	A8+	A8+	A12+
12000 lm	4000 K	72	167	48	490	64.4	186	A11+	A12+	A9+	A9+	A12+

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Optic: Type III - C

Screen finish: Transparent

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
1500 lm	2200 K	12	125	16	208	8.9	169	A6+	A6+	A5+	A5+	A9+
1500 lm	2700 K	11	136	16	188	8	188	A7+	A8+	A7+	A7+	A11+
1500 lm	3000 K	10.7	140	16	184	7.8	192	A8+	A9+	A7+	A7+	A12+
1500 lm	4000 K	10.2	147	16	176	7.4	203	A9+	A10+	A8+	A8+	A12+
2500 lm	2200 K	19	132	16	354	15.3	163	A7+	A7+	A6+	A6+	A10+
2500 lm	2700 K	17.3	145	16	318	13.7	182	A8+	A9+	A8+	A8+	A12+
2500 lm	3000 K	17	147	16	310	13.4	187	A9+	A10+	A8+	A8+	A12+
2500 lm	4000 K	16.3	153	16	296	12.7	197	A10+	A10+	A9+	A9+	A12+
3500 lm	2200 K	26	135	16	506	22.2	158	A7+	A8+	A6+	A6+	A11+
3500 lm	2700 K	23.7	148	16	454	19.9	176	A9+	A10+	A8+	A8+	A12+
3500 lm	3000 K	23.1	152	16	442	19.3	181	A9+	A10+	A9+	A9+	A12+
3500 lm	4000 K	22.2	158	16	422	18.4	190	A10+	A11+	A10+	A10+	A12+
4500 lm	2200 K	31.8	142	24	428	28.1	160	A8+	A9+	A7+	A7+	A12+
4500 lm	2700 K	30.1	150	16	596	26.4	170	A9+	A10+	A8+	A8+	A12+
4500 lm	3000 K	29.3	154	16	578	25.6	176	A10+	A10+	A9+	A9+	A12+
4500 lm	4000 K	28.1	160	16	552	24.4	184	A10+	A11+	A10+	A10+	A12+
6000 lm	2200 K	44.4	135	24	584	38.8	155	A7+	A8+	A7+	A7+	A11+
6000 lm	2700 K	38.6	155	24	524	34.6	173	A10+	A11+	A9+	A9+	A12+
6000 lm	3000 K	37.5	160	24	510	33.6	179	A10+	A11+	A10+	A10+	A12+
6000 lm	4000 K	35.8	168	24	486	32	188	A11+	A12+	A11+	A11+	A12+
7500 lm	2200 K	54	139	32	544	48.1	156	A8+	A8+	A7+	A7+	A12+
7500 lm	2700 K	50.6	148	24	668	44.8	167	A9+	A10+	A8+	A8+	A12+
7500 lm	3000 K	49.2	152	24	650	43.4	173	A9+	A10+	A9+	A9+	A12+
7500 lm	4000 K	46.9	160	24	618	41.2	182	A10+	A11+	A10+	A10+	A12+
9000 lm	2200 K	65.6	137	32	664	59.3	152	A7+	A8+	A6+	A6+	A11+
9000 lm	2700 K	58.8	153	32	596	52.8	170	A9+	A10+	A9+	A9+	A12+
9000 lm	3000 K	57.3	157	32	578	51.3	175	A10+	A11+	A9+	A9+	A12+
9000 lm	4000 K	54.6	165	32	552	48.7	185	A11+	A12+	A10+	A10+	A12+
10500 lm	2200 K	74.4	141	48	506	66.7	157	A7+	A9+	A6+	A6+	A12+
10500 lm	2700 K	69.7	151	32	706	63.2	166	A9+	A10+	A7+	A7+	A12+
10500 lm	3000 K	67.7	155	32	686	61.3	171	A9+	A11+	A8+	A8+	A12+
10500 lm	4000 K	64.5	163	32	652	58.2	180	A11+	A12+	A10+	A10+	A12+
12000 lm	2700 K	77	156	48	524	69.3	173	A9+	A11+	A8+	A8+	A12+
12000 lm	3000 K	74.9	160	48	510	67.3	178	A10+	A11+	A9+	A9+	A12+
12000 lm	4000 K	71.6	168	48	486	64	188	A11+	A12+	A9+	A9+	A12+

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Optic: Type III - C

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
1500 lm	2200 K	12	125	16	210	8.9	169	A6+	A6+	A5+	A5+	A9+
1500 lm	2700 K	11	136	16	190	8	188	A7+	A8+	A7+	A7+	A11+
1500 lm	3000 K	10.7	140	16	184	7.8	192	A8+	A9+	A7+	A7+	A12+
1500 lm	4000 K	10.4	144	16	176	7.5	200	A8+	A9+	A8+	A8+	A12+
2500 lm	2200 K	19.1	131	16	356	15.4	162	A6+	A7+	A6+	A6+	A10+
2500 lm	2700 K	17.4	144	16	320	13.8	181	A8+	A9+	A8+	A8+	A12+
2500 lm	3000 K	17	147	16	312	13.4	187	A9+	A10+	A8+	A8+	A12+
2500 lm	4000 K	16.4	152	16	298	12.8	195	A9+	A10+	A9+	A9+	A12+
3500 lm	2200 K	26.2	134	16	508	22.4	156	A7+	A8+	A6+	A6+	A11+
3500 lm	2700 K	23.8	147	16	458	20	175	A9+	A10+	A8+	A8+	A12+
3500 lm	3000 K	23.2	151	16	444	19.4	180	A9+	A10+	A9+	A9+	A12+
3500 lm	4000 K	22.3	157	16	424	18.5	189	A10+	A11+	A9+	A9+	A12+
4500 lm	2200 K	32	141	24	432	28.3	159	A8+	A9+	A7+	A7+	A12+
4500 lm	2700 K	30.3	149	16	600	26.6	169	A9+	A10+	A8+	A8+	A12+
4500 lm	3000 K	29.5	153	16	582	25.8	174	A9+	A10+	A9+	A9+	A12+
4500 lm	4000 K	28.2	160	16	556	24.5	184	A10+	A11+	A10+	A10+	A12+
6000 lm	2200 K	44.7	134	24	588	39.1	153	A7+	A8+	A6+	A6+	A11+
6000 lm	2700 K	39	154	24	528	34.9	172	A10+	A10+	A9+	A9+	A12+
6000 lm	3000 K	37.9	158	24	514	33.9	177	A10+	A11+	A10+	A10+	A12+
6000 lm	4000 K	36.1	166	24	490	32.2	186	A11+	A12+	A11+	A11+	A12+
7500 lm	2200 K	54.3	138	32	548	48.4	155	A7+	A8+	A7+	A7+	A12+
7500 lm	2700 K	50.9	147	24	674	45.1	166	A9+	A10+	A8+	A8+	A12+
7500 lm	3000 K	49.5	152	24	654	43.7	172	A9+	A10+	A9+	A9+	A12+
7500 lm	4000 K	47.3	159	24	622	41.6	180	A10+	A11+	A10+	A10+	A12+
9000 lm	2200 K	66	136	32	668	59.7	151	A7+	A8+	A6+	A6+	A11+
9000 lm	2700 K	59.2	152	32	600	53.2	169	A9+	A10+	A9+	A9+	A12+
9000 lm	3000 K	57.7	156	32	582	51.7	174	A10+	A11+	A9+	A9+	A12+
9000 lm	4000 K	55	164	32	556	49.1	183	A11+	A12+	A10+	A10+	A12+
10500 lm	2200 K	74.8	140	48	508	67.2	156	A7+	A9+	A6+	A6+	A12+
10500 lm	2700 K	70.2	150	32	710	63.7	165	A8+	A10+	A7+	A7+	A12+
10500 lm	3000 K	68.1	154	32	690	61.7	170	A9+	A11+	A8+	A8+	A12+
10500 lm	4000 K	64.8	162	32	658	58.6	179	A11+	A12+	A10+	A10+	A12+
12000 lm	2700 K	77.6	155	48	528	69.8	172	A9+	A11+	A8+	A8+	A12+
12000 lm	3000 K	75.5	159	48	514	67.8	177	A10+	A11+	A8+	A8+	A12+
12000 lm	4000 K	72	167	48	490	64.4	186	A11+	A12+	A9+	A9+	A12+

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Optic: Type III - Asymmetric

Screen finish: Transparent

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
1500 lm	2200 K	12	125	16	208	8.9	169	A6+	A6+	A5+	A5+	A9+
1500 lm	2700 K	11	136	16	188	8	188	A7+	A8+	A7+	A7+	A11+
1500 lm	3000 K	10.7	140	16	184	7.8	192	A8+	A9+	A7+	A7+	A12+
1500 lm	4000 K	10.2	147	16	176	7.4	203	A9+	A10+	A8+	A8+	A12+
2500 lm	2200 K	19	132	16	354	15.3	163	A7+	A7+	A6+	A6+	A10+
2500 lm	2700 K	17.3	145	16	318	13.7	182	A8+	A9+	A8+	A8+	A12+
2500 lm	3000 K	17	147	16	310	13.4	187	A9+	A10+	A8+	A8+	A12+
2500 lm	4000 K	16.3	153	16	296	12.7	197	A10+	A10+	A9+	A9+	A12+
3500 lm	2200 K	26	135	16	506	22.2	158	A7+	A8+	A6+	A6+	A11+
3500 lm	2700 K	23.7	148	16	454	19.9	176	A9+	A10+	A8+	A8+	A12+
3500 lm	3000 K	23.1	152	16	442	19.3	181	A9+	A10+	A9+	A9+	A12+
3500 lm	4000 K	22.2	158	16	422	18.4	190	A10+	A11+	A10+	A10+	A12+
4500 lm	2200 K	31.8	142	24	428	28.1	160	A8+	A9+	A7+	A7+	A12+
4500 lm	2700 K	30.1	150	16	596	26.4	170	A9+	A10+	A8+	A8+	A12+
4500 lm	3000 K	29.3	154	16	578	25.6	176	A10+	A10+	A9+	A9+	A12+
4500 lm	4000 K	28.1	160	16	552	24.4	184	A10+	A11+	A10+	A10+	A12+
6000 lm	2200 K	44.4	135	24	584	38.8	155	A7+	A8+	A7+	A7+	A11+
6000 lm	2700 K	38.6	155	24	524	34.6	173	A10+	A11+	A9+	A9+	A12+
6000 lm	3000 K	37.5	160	24	510	33.6	179	A10+	A11+	A10+	A10+	A12+
6000 lm	4000 K	35.8	168	24	486	32	188	A11+	A12+	A11+	A11+	A12+
7500 lm	2200 K	54	139	32	544	48.1	156	A8+	A8+	A7+	A7+	A12+
7500 lm	2700 K	50.6	148	24	668	44.8	167	A9+	A10+	A8+	A8+	A12+
7500 lm	3000 K	49.2	152	24	650	43.4	173	A9+	A10+	A9+	A9+	A12+
7500 lm	4000 K	46.9	160	24	618	41.2	182	A10+	A11+	A10+	A10+	A12+
9000 lm	2200 K	65.6	137	32	664	59.3	152	A7+	A8+	A6+	A6+	A11+
9000 lm	2700 K	58.8	153	32	596	52.8	170	A9+	A10+	A9+	A9+	A12+
9000 lm	3000 K	57.3	157	32	578	51.3	175	A10+	A11+	A9+	A9+	A12+
9000 lm	4000 K	54.6	165	32	552	48.7	185	A11+	A12+	A10+	A10+	A12+
10500 lm	2200 K	74.4	141	48	506	66.7	157	A7+	A9+	A6+	A6+	A12+
10500 lm	2700 K	69.7	151	32	706	63.2	166	A9+	A10+	A7+	A7+	A12+
10500 lm	3000 K	67.7	155	32	686	61.3	171	A9+	A11+	A8+	A8+	A12+
10500 lm	4000 K	64.5	163	32	652	58.2	180	A11+	A12+	A10+	A10+	A12+
12000 lm	2700 K	77	156	48	524	69.3	173	A9+	A11+	A8+	A8+	A12+
12000 lm	3000 K	74.9	160	48	510	67.3	178	A10+	A11+	A9+	A9+	A12+
12000 lm	4000 K	71.6	168	48	486	64	188	A11+	A12+	A9+	A9+	A12+

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Optic: Type III - Asymmetric

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
1500 lm	2200 K	12	125	16	210	8.9	169	A6+	A6+	A5+	A5+	A9+
1500 lm	2700 K	11	136	16	190	8	188	A7+	A8+	A7+	A7+	A11+
1500 lm	3000 K	10.7	140	16	184	7.8	192	A8+	A9+	A7+	A7+	A12+
1500 lm	4000 K	10.4	144	16	176	7.5	200	A8+	A9+	A8+	A8+	A12+
2500 lm	2200 K	19.1	131	16	356	15.4	162	A6+	A7+	A6+	A6+	A10+
2500 lm	2700 K	17.4	144	16	320	13.8	181	A8+	A9+	A8+	A8+	A12+
2500 lm	3000 K	17	147	16	312	13.4	187	A9+	A10+	A8+	A8+	A12+
2500 lm	4000 K	16.4	152	16	298	12.8	195	A9+	A10+	A9+	A9+	A12+
3500 lm	2200 K	26.2	134	16	508	22.4	156	A7+	A8+	A6+	A6+	A11+
3500 lm	2700 K	23.8	147	16	458	20	175	A9+	A10+	A8+	A8+	A12+
3500 lm	3000 K	23.2	151	16	444	19.4	180	A9+	A10+	A9+	A9+	A12+
3500 lm	4000 K	22.3	157	16	424	18.5	189	A10+	A11+	A9+	A9+	A12+
4500 lm	2200 K	32	141	24	432	28.3	159	A8+	A9+	A7+	A7+	A12+
4500 lm	2700 K	30.3	149	16	600	26.6	169	A9+	A10+	A8+	A8+	A12+
4500 lm	3000 K	29.5	153	16	582	25.8	174	A9+	A10+	A9+	A9+	A12+
4500 lm	4000 K	28.2	160	16	556	24.5	184	A10+	A11+	A10+	A10+	A12+
6000 lm	2200 K	44.7	134	24	588	39.1	153	A7+	A8+	A6+	A6+	A11+
6000 lm	2700 K	39	154	24	528	34.9	172	A10+	A10+	A9+	A9+	A12+
6000 lm	3000 K	37.9	158	24	514	33.9	177	A10+	A11+	A10+	A10+	A12+
6000 lm	4000 K	36.1	166	24	490	32.2	186	A11+	A12+	A11+	A11+	A12+
7500 lm	2200 K	54.3	138	32	548	48.4	155	A7+	A8+	A7+	A7+	A12+
7500 lm	2700 K	50.9	147	24	674	45.1	166	A9+	A10+	A8+	A8+	A12+
7500 lm	3000 K	49.5	152	24	654	43.7	172	A9+	A10+	A9+	A9+	A12+
7500 lm	4000 K	47.3	159	24	622	41.6	180	A10+	A11+	A10+	A10+	A12+
9000 lm	2200 K	66	136	32	668	59.7	151	A7+	A8+	A6+	A6+	A11+
9000 lm	2700 K	59.2	152	32	600	53.2	169	A9+	A10+	A9+	A9+	A12+
9000 lm	3000 K	57.7	156	32	582	51.7	174	A10+	A11+	A9+	A9+	A12+
9000 lm	4000 K	55	164	32	556	49.1	183	A11+	A12+	A10+	A10+	A12+
10500 lm	2200 K	74.8	140	48	508	67.2	156	A7+	A9+	A6+	A6+	A12+
10500 lm	2700 K	70.2	150	32	710	63.7	165	A8+	A10+	A7+	A7+	A12+
10500 lm	3000 K	68.1	154	32	690	61.7	170	A9+	A11+	A8+	A8+	A12+
10500 lm	4000 K	64.8	162	32	658	58.6	179	A11+	A12+	A10+	A10+	A12+
12000 lm	2700 K	77.6	155	48	528	69.8	172	A9+	A11+	A8+	A8+	A12+
12000 lm	3000 K	75.5	159	48	514	67.8	177	A10+	A11+	A8+	A8+	A12+
12000 lm	4000 K	72	167	48	490	64.4	186	A11+	A12+	A9+	A9+	A12+

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Optic: Type IV - Forward throw

Screen finish: Transparent

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
1500 lm	2200 K	12	125	16	208	8.9	169	A6+	A6+	A5+	A5+	A9+
1500 lm	2700 K	11	136	16	188	8	188	A7+	A8+	A7+	A7+	A11+
1500 lm	3000 K	10.7	140	16	184	7.8	192	A8+	A9+	A7+	A7+	A12+
1500 lm	4000 K	10.2	147	16	176	7.4	203	A9+	A10+	A8+	A8+	A12+
2500 lm	2200 K	19	132	16	354	15.3	163	A7+	A7+	A6+	A6+	A10+
2500 lm	2700 K	17.3	145	16	318	13.7	182	A8+	A9+	A8+	A8+	A12+
2500 lm	3000 K	17	147	16	310	13.4	187	A9+	A10+	A8+	A8+	A12+
2500 lm	4000 K	16.3	153	16	296	12.7	197	A10+	A10+	A9+	A9+	A12+
3500 lm	2200 K	26	135	16	506	22.2	158	A7+	A8+	A6+	A6+	A11+
3500 lm	2700 K	23.7	148	16	454	19.9	176	A9+	A10+	A8+	A8+	A12+
3500 lm	3000 K	23.1	152	16	442	19.3	181	A9+	A10+	A9+	A9+	A12+
3500 lm	4000 K	22.2	158	16	422	18.4	190	A10+	A11+	A10+	A10+	A12+
4500 lm	2200 K	31.8	142	24	428	28.1	160	A8+	A9+	A7+	A7+	A12+
4500 lm	2700 K	30.1	150	16	596	26.4	170	A9+	A10+	A8+	A8+	A12+
4500 lm	3000 K	29.3	154	16	578	25.6	176	A10+	A10+	A9+	A9+	A12+
4500 lm	4000 K	28.1	160	16	552	24.4	184	A10+	A11+	A10+	A10+	A12+
6000 lm	2200 K	44.4	135	24	584	38.8	155	A7+	A8+	A7+	A7+	A11+
6000 lm	2700 K	38.6	155	24	524	34.6	173	A10+	A11+	A9+	A9+	A12+
6000 lm	3000 K	37.5	160	24	510	33.6	179	A10+	A11+	A10+	A10+	A12+
6000 lm	4000 K	35.8	168	24	486	32	188	A11+	A12+	A11+	A11+	A12+
7500 lm	2200 K	54	139	32	544	48.1	156	A8+	A8+	A7+	A7+	A12+
7500 lm	2700 K	50.6	148	24	668	44.8	167	A9+	A10+	A8+	A8+	A12+
7500 lm	3000 K	49.2	152	24	650	43.4	173	A9+	A10+	A9+	A9+	A12+
7500 lm	4000 K	46.9	160	24	618	41.2	182	A10+	A11+	A10+	A10+	A12+
9000 lm	2200 K	65.6	137	32	664	59.3	152	A7+	A8+	A6+	A6+	A11+
9000 lm	2700 K	58.8	153	32	596	52.8	170	A9+	A10+	A9+	A9+	A12+
9000 lm	3000 K	57.3	157	32	578	51.3	175	A10+	A11+	A9+	A9+	A12+
9000 lm	4000 K	54.6	165	32	552	48.7	185	A11+	A12+	A10+	A10+	A12+
10500 lm	2200 K	74.4	141	48	506	66.7	157	A7+	A9+	A6+	A6+	A12+
10500 lm	2700 K	69.7	151	32	706	63.2	166	A9+	A10+	A7+	A7+	A12+
10500 lm	3000 K	67.7	155	32	686	61.3	171	A9+	A11+	A8+	A8+	A12+
10500 lm	4000 K	64.5	163	32	652	58.2	180	A11+	A12+	A10+	A10+	A12+
12000 lm	2700 K	77	156	48	524	69.3	173	A9+	A11+	A8+	A8+	A12+
12000 lm	3000 K	74.9	160	48	510	67.3	178	A10+	A11+	A9+	A9+	A12+
12000 lm	4000 K	71.6	168	48	486	64	188	A11+	A12+	A9+	A9+	A12+

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Optic: Type IV - Forward throw

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
1500 lm	2200 K	12	125	16	210	8.9	169	A6+	A6+	A5+	A5+	A9+
1500 lm	2700 K	11	136	16	190	8	188	A7+	A8+	A7+	A7+	A11+
1500 lm	3000 K	10.7	140	16	184	7.8	192	A8+	A9+	A7+	A7+	A12+
1500 lm	4000 K	10.4	144	16	176	7.5	200	A8+	A9+	A8+	A8+	A12+
2500 lm	2200 K	19.1	131	16	356	15.4	162	A6+	A7+	A6+	A6+	A10+
2500 lm	2700 K	17.4	144	16	320	13.8	181	A8+	A9+	A8+	A8+	A12+
2500 lm	3000 K	17	147	16	312	13.4	187	A9+	A10+	A8+	A8+	A12+
2500 lm	4000 K	16.4	152	16	298	12.8	195	A9+	A10+	A9+	A9+	A12+
3500 lm	2200 K	26.2	134	16	508	22.4	156	A7+	A8+	A6+	A6+	A11+
3500 lm	2700 K	23.8	147	16	458	20	175	A9+	A10+	A8+	A8+	A12+
3500 lm	3000 K	23.2	151	16	444	19.4	180	A9+	A10+	A9+	A9+	A12+
3500 lm	4000 K	22.3	157	16	424	18.5	189	A10+	A11+	A9+	A9+	A12+
4500 lm	2200 K	32	141	24	432	28.3	159	A8+	A9+	A7+	A7+	A12+
4500 lm	2700 K	30.3	149	16	600	26.6	169	A9+	A10+	A8+	A8+	A12+
4500 lm	3000 K	29.5	153	16	582	25.8	174	A9+	A10+	A9+	A9+	A12+
4500 lm	4000 K	28.2	160	16	556	24.5	184	A10+	A11+	A10+	A10+	A12+
6000 lm	2200 K	44.7	134	24	588	39.1	153	A7+	A8+	A6+	A6+	A11+
6000 lm	2700 K	39	154	24	528	34.9	172	A10+	A10+	A9+	A9+	A12+
6000 lm	3000 K	37.9	158	24	514	33.9	177	A10+	A11+	A10+	A10+	A12+
6000 lm	4000 K	36.1	166	24	490	32.2	186	A11+	A12+	A11+	A11+	A12+
7500 lm	2200 K	54.3	138	32	548	48.4	155	A7+	A8+	A7+	A7+	A12+
7500 lm	2700 K	50.9	147	24	674	45.1	166	A9+	A10+	A8+	A8+	A12+
7500 lm	3000 K	49.5	152	24	654	43.7	172	A9+	A10+	A9+	A9+	A12+
7500 lm	4000 K	47.3	159	24	622	41.6	180	A10+	A11+	A10+	A10+	A12+
9000 lm	2200 K	66	136	32	668	59.7	151	A7+	A8+	A6+	A6+	A11+
9000 lm	2700 K	59.2	152	32	600	53.2	169	A9+	A10+	A9+	A9+	A12+
9000 lm	3000 K	57.7	156	32	582	51.7	174	A10+	A11+	A9+	A9+	A12+
9000 lm	4000 K	55	164	32	556	49.1	183	A11+	A12+	A10+	A10+	A12+
10500 lm	2200 K	74.8	140	48	508	67.2	156	A7+	A9+	A6+	A6+	A12+
10500 lm	2700 K	70.2	150	32	710	63.7	165	A8+	A10+	A7+	A7+	A12+
10500 lm	3000 K	68.1	154	32	690	61.7	170	A9+	A11+	A8+	A8+	A12+
10500 lm	4000 K	64.8	162	32	658	58.6	179	A11+	A12+	A10+	A10+	A12+
12000 lm	2700 K	77.6	155	48	528	69.8	172	A9+	A11+	A8+	A8+	A12+
12000 lm	3000 K	75.5	159	48	514	67.8	177	A10+	A11+	A8+	A8+	A12+
12000 lm	4000 K	72	167	48	490	64.4	186	A11+	A12+	A9+	A9+	A12+

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Optic: Type IV - C

Screen finish: Transparent

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
1500 lm	2200 K	12	125	16	208	8.9	169	A6+	A6+	A5+	A5+	A9+
1500 lm	2700 K	11	136	16	188	8	188	A7+	A8+	A7+	A7+	A11+
1500 lm	3000 K	10.7	140	16	184	7.8	192	A8+	A9+	A7+	A7+	A12+
1500 lm	4000 K	10.2	147	16	176	7.4	203	A9+	A10+	A8+	A8+	A12+
2500 lm	2200 K	19	132	16	354	15.3	163	A7+	A7+	A6+	A6+	A10+
2500 lm	2700 K	17.3	145	16	318	13.7	182	A8+	A9+	A8+	A8+	A12+
2500 lm	3000 K	17	147	16	310	13.4	187	A9+	A10+	A8+	A8+	A12+
2500 lm	4000 K	16.3	153	16	296	12.7	197	A10+	A10+	A9+	A9+	A12+
3500 lm	2200 K	26	135	16	506	22.2	158	A7+	A8+	A6+	A6+	A11+
3500 lm	2700 K	23.7	148	16	454	19.9	176	A9+	A10+	A8+	A8+	A12+
3500 lm	3000 K	23.1	152	16	442	19.3	181	A9+	A10+	A9+	A9+	A12+
3500 lm	4000 K	22.2	158	16	422	18.4	190	A10+	A11+	A10+	A10+	A12+
4500 lm	2200 K	31.8	142	24	428	28.1	160	A8+	A9+	A7+	A7+	A12+
4500 lm	2700 K	30.1	150	16	596	26.4	170	A9+	A10+	A8+	A8+	A12+
4500 lm	3000 K	29.3	154	16	578	25.6	176	A10+	A10+	A9+	A9+	A12+
4500 lm	4000 K	28.1	160	16	552	24.4	184	A10+	A11+	A10+	A10+	A12+
6000 lm	2200 K	44.4	135	24	584	38.8	155	A7+	A8+	A7+	A7+	A11+
6000 lm	2700 K	38.6	155	24	524	34.6	173	A10+	A11+	A9+	A9+	A12+
6000 lm	3000 K	37.5	160	24	510	33.6	179	A10+	A11+	A10+	A10+	A12+
6000 lm	4000 K	35.8	168	24	486	32	188	A11+	A12+	A11+	A11+	A12+
7500 lm	2200 K	54	139	32	544	48.1	156	A8+	A8+	A7+	A7+	A12+
7500 lm	2700 K	50.6	148	24	668	44.8	167	A9+	A10+	A8+	A8+	A12+
7500 lm	3000 K	49.2	152	24	650	43.4	173	A9+	A10+	A9+	A9+	A12+
7500 lm	4000 K	46.9	160	24	618	41.2	182	A10+	A11+	A10+	A10+	A12+
9000 lm	2200 K	65.6	137	32	664	59.3	152	A7+	A8+	A6+	A6+	A11+
9000 lm	2700 K	58.8	153	32	596	52.8	170	A9+	A10+	A9+	A9+	A12+
9000 lm	3000 K	57.3	157	32	578	51.3	175	A10+	A11+	A9+	A9+	A12+
9000 lm	4000 K	54.6	165	32	552	48.7	185	A11+	A12+	A10+	A10+	A12+
10500 lm	2200 K	74.4	141	48	506	66.7	157	A7+	A9+	A6+	A6+	A12+
10500 lm	2700 K	69.7	151	32	706	63.2	166	A9+	A10+	A7+	A7+	A12+
10500 lm	3000 K	67.7	155	32	686	61.3	171	A9+	A11+	A8+	A8+	A12+
10500 lm	4000 K	64.5	163	32	652	58.2	180	A11+	A12+	A10+	A10+	A12+
12000 lm	2700 K	77	156	48	524	69.3	173	A9+	A11+	A8+	A8+	A12+
12000 lm	3000 K	74.9	160	48	510	67.3	178	A10+	A11+	A9+	A9+	A12+
12000 lm	4000 K	71.6	168	48	486	64	188	A11+	A12+	A9+	A9+	A12+

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Optic: Type IV - C

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
1500 lm	2200 K	12	125	16	210	8.9	169	A6+	A6+	A5+	A5+	A9+
1500 lm	2700 K	11	136	16	190	8	188	A7+	A8+	A7+	A7+	A11+
1500 lm	3000 K	10.7	140	16	184	7.8	192	A8+	A9+	A7+	A7+	A12+
1500 lm	4000 K	10.4	144	16	176	7.5	200	A8+	A9+	A8+	A8+	A12+
2500 lm	2200 K	19.1	131	16	356	15.4	162	A6+	A7+	A6+	A6+	A10+
2500 lm	2700 K	17.4	144	16	320	13.8	181	A8+	A9+	A8+	A8+	A12+
2500 lm	3000 K	17	147	16	312	13.4	187	A9+	A10+	A8+	A8+	A12+
2500 lm	4000 K	16.4	152	16	298	12.8	195	A9+	A10+	A9+	A9+	A12+
3500 lm	2200 K	26.2	134	16	508	22.4	156	A7+	A8+	A6+	A6+	A11+
3500 lm	2700 K	23.8	147	16	458	20	175	A9+	A10+	A8+	A8+	A12+
3500 lm	3000 K	23.2	151	16	444	19.4	180	A9+	A10+	A9+	A9+	A12+
3500 lm	4000 K	22.3	157	16	424	18.5	189	A10+	A11+	A9+	A9+	A12+
4500 lm	2200 K	32	141	24	432	28.3	159	A8+	A9+	A7+	A7+	A12+
4500 lm	2700 K	30.3	149	16	600	26.6	169	A9+	A10+	A8+	A8+	A12+
4500 lm	3000 K	29.5	153	16	582	25.8	174	A9+	A10+	A9+	A9+	A12+
4500 lm	4000 K	28.2	160	16	556	24.5	184	A10+	A11+	A10+	A10+	A12+
6000 lm	2200 K	44.7	134	24	588	39.1	153	A7+	A8+	A6+	A6+	A11+
6000 lm	2700 K	39	154	24	528	34.9	172	A10+	A10+	A9+	A9+	A12+
6000 lm	3000 K	37.9	158	24	514	33.9	177	A10+	A11+	A10+	A10+	A12+
6000 lm	4000 K	36.1	166	24	490	32.2	186	A11+	A12+	A11+	A11+	A12+
7500 lm	2200 K	54.3	138	32	548	48.4	155	A7+	A8+	A7+	A7+	A12+
7500 lm	2700 K	50.9	147	24	674	45.1	166	A9+	A10+	A8+	A8+	A12+
7500 lm	3000 K	49.5	152	24	654	43.7	172	A9+	A10+	A9+	A9+	A12+
7500 lm	4000 K	47.3	159	24	622	41.6	180	A10+	A11+	A10+	A10+	A12+
9000 lm	2200 K	66	136	32	668	59.7	151	A7+	A8+	A6+	A6+	A11+
9000 lm	2700 K	59.2	152	32	600	53.2	169	A9+	A10+	A9+	A9+	A12+
9000 lm	3000 K	57.7	156	32	582	51.7	174	A10+	A11+	A9+	A9+	A12+
9000 lm	4000 K	55	164	32	556	49.1	183	A11+	A12+	A10+	A10+	A12+
10500 lm	2200 K	74.8	140	48	508	67.2	156	A7+	A9+	A6+	A6+	A12+
10500 lm	2700 K	70.2	150	32	710	63.7	165	A8+	A10+	A7+	A7+	A12+
10500 lm	3000 K	68.1	154	32	690	61.7	170	A9+	A11+	A8+	A8+	A12+
10500 lm	4000 K	64.8	162	32	658	58.6	179	A11+	A12+	A10+	A10+	A12+
12000 lm	2700 K	77.6	155	48	528	69.8	172	A9+	A11+	A8+	A8+	A12+
12000 lm	3000 K	75.5	159	48	514	67.8	177	A10+	A11+	A8+	A8+	A12+
12000 lm	4000 K	72	167	48	490	64.4	186	A11+	A12+	A9+	A9+	A12+

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Optic: Type V - Rotosymmetric

Screen finish: Transparent

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
1500 lm	2200 K	12	125	16	208	8.9	169	A6+	A6+	A5+	A5+	A9+
1500 lm	2700 K	11	136	16	188	8	188	A7+	A8+	A7+	A7+	A11+
1500 lm	3000 K	10.7	140	16	184	7.8	192	A8+	A9+	A7+	A7+	A12+
1500 lm	4000 K	10.2	147	16	176	7.4	203	A9+	A10+	A8+	A8+	A12+
2500 lm	2200 K	19	132	16	354	15.3	163	A7+	A7+	A6+	A6+	A10+
2500 lm	2700 K	17.3	145	16	318	13.7	182	A8+	A9+	A8+	A8+	A12+
2500 lm	3000 K	17	147	16	310	13.4	187	A9+	A10+	A8+	A8+	A12+
2500 lm	4000 K	16.3	153	16	296	12.7	197	A10+	A10+	A9+	A9+	A12+
3500 lm	2200 K	26	135	16	506	22.2	158	A7+	A8+	A6+	A6+	A11+
3500 lm	2700 K	23.7	148	16	454	19.9	176	A9+	A10+	A8+	A8+	A12+
3500 lm	3000 K	23.1	152	16	442	19.3	181	A9+	A10+	A9+	A9+	A12+
3500 lm	4000 K	22.2	158	16	422	18.4	190	A10+	A11+	A10+	A10+	A12+
4500 lm	2200 K	31.8	142	24	428	28.1	160	A8+	A9+	A7+	A7+	A12+
4500 lm	2700 K	30.1	150	16	596	26.4	170	A9+	A10+	A8+	A8+	A12+
4500 lm	3000 K	29.3	154	16	578	25.6	176	A10+	A10+	A9+	A9+	A12+
4500 lm	4000 K	28.1	160	16	552	24.4	184	A10+	A11+	A10+	A10+	A12+
6000 lm	2200 K	44.4	135	24	584	38.8	155	A7+	A8+	A7+	A7+	A11+
6000 lm	2700 K	38.6	155	24	524	34.6	173	A10+	A11+	A9+	A9+	A12+
6000 lm	3000 K	37.5	160	24	510	33.6	179	A10+	A11+	A10+	A10+	A12+
6000 lm	4000 K	35.8	168	24	486	32	188	A11+	A12+	A11+	A11+	A12+
7500 lm	2200 K	54	139	32	544	48.1	156	A8+	A8+	A7+	A7+	A12+
7500 lm	2700 K	50.6	148	24	668	44.8	167	A9+	A10+	A8+	A8+	A12+
7500 lm	3000 K	49.2	152	24	650	43.4	173	A9+	A10+	A9+	A9+	A12+
7500 lm	4000 K	46.9	160	24	618	41.2	182	A10+	A11+	A10+	A10+	A12+
9000 lm	2200 K	65.6	137	32	664	59.3	152	A7+	A8+	A6+	A6+	A11+
9000 lm	2700 K	58.8	153	32	596	52.8	170	A9+	A10+	A9+	A9+	A12+
9000 lm	3000 K	57.3	157	32	578	51.3	175	A10+	A11+	A9+	A9+	A12+
9000 lm	4000 K	54.6	165	32	552	48.7	185	A11+	A12+	A10+	A10+	A12+
10500 lm	2200 K	74.4	141	48	506	66.7	157	A7+	A9+	A6+	A6+	A12+
10500 lm	2700 K	69.7	151	32	706	63.2	166	A9+	A10+	A7+	A7+	A12+
10500 lm	3000 K	67.7	155	32	686	61.3	171	A9+	A11+	A8+	A8+	A12+
10500 lm	4000 K	64.5	163	32	652	58.2	180	A11+	A12+	A10+	A10+	A12+
12000 lm	2700 K	77	156	48	524	69.3	173	A9+	A11+	A8+	A8+	A12+
12000 lm	3000 K	74.9	160	48	510	67.3	178	A10+	A11+	A9+	A9+	A12+
12000 lm	4000 K	71.6	168	48	486	64	188	A11+	A12+	A9+	A9+	A12+

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Optic: Type V - Rotosymmetric

Screen finish: Prismatic

System					Source			IPEA				
Luminous Flux	Nominal CCT	W	lm/W	n° led	mA	W	lm/W	Road	Urban	Ped	Park	Art
1500 lm	2200 K	12	125	16	210	8.9	169	A6+	A6+	A5+	A5+	A9+
1500 lm	2700 K	11	136	16	190	8	188	A7+	A8+	A7+	A7+	A11+
1500 lm	3000 K	10.7	140	16	184	7.8	192	A8+	A9+	A7+	A7+	A12+
1500 lm	4000 K	10.4	144	16	176	7.5	200	A8+	A9+	A8+	A8+	A12+
2500 lm	2200 K	19.1	131	16	356	15.4	162	A6+	A7+	A6+	A6+	A10+
2500 lm	2700 K	17.4	144	16	320	13.8	181	A8+	A9+	A8+	A8+	A12+
2500 lm	3000 K	17	147	16	312	13.4	187	A9+	A10+	A8+	A8+	A12+
2500 lm	4000 K	16.4	152	16	298	12.8	195	A9+	A10+	A9+	A9+	A12+
3500 lm	2200 K	26.2	134	16	508	22.4	156	A7+	A8+	A6+	A6+	A11+
3500 lm	2700 K	23.8	147	16	458	20	175	A9+	A10+	A8+	A8+	A12+
3500 lm	3000 K	23.2	151	16	444	19.4	180	A9+	A10+	A9+	A9+	A12+
3500 lm	4000 K	22.3	157	16	424	18.5	189	A10+	A11+	A9+	A9+	A12+
4500 lm	2200 K	32	141	24	432	28.3	159	A8+	A9+	A7+	A7+	A12+
4500 lm	2700 K	30.3	149	16	600	26.6	169	A9+	A10+	A8+	A8+	A12+
4500 lm	3000 K	29.5	153	16	582	25.8	174	A9+	A10+	A9+	A9+	A12+
4500 lm	4000 K	28.2	160	16	556	24.5	184	A10+	A11+	A10+	A10+	A12+
6000 lm	2200 K	44.7	134	24	588	39.1	153	A7+	A8+	A6+	A6+	A11+
6000 lm	2700 K	39	154	24	528	34.9	172	A10+	A10+	A9+	A9+	A12+
6000 lm	3000 K	37.9	158	24	514	33.9	177	A10+	A11+	A10+	A10+	A12+
6000 lm	4000 K	36.1	166	24	490	32.2	186	A11+	A12+	A11+	A11+	A12+
7500 lm	2200 K	54.3	138	32	548	48.4	155	A7+	A8+	A7+	A7+	A12+
7500 lm	2700 K	50.9	147	24	674	45.1	166	A9+	A10+	A8+	A8+	A12+
7500 lm	3000 K	49.5	152	24	654	43.7	172	A9+	A10+	A9+	A9+	A12+
7500 lm	4000 K	47.3	159	24	622	41.6	180	A10+	A11+	A10+	A10+	A12+
9000 lm	2200 K	66	136	32	668	59.7	151	A7+	A8+	A6+	A6+	A11+
9000 lm	2700 K	59.2	152	32	600	53.2	169	A9+	A10+	A9+	A9+	A12+
9000 lm	3000 K	57.7	156	32	582	51.7	174	A10+	A11+	A9+	A9+	A12+
9000 lm	4000 K	55	164	32	556	49.1	183	A11+	A12+	A10+	A10+	A12+
10500 lm	2200 K	74.8	140	48	508	67.2	156	A7+	A9+	A6+	A6+	A12+
10500 lm	2700 K	70.2	150	32	710	63.7	165	A8+	A10+	A7+	A7+	A12+
10500 lm	3000 K	68.1	154	32	690	61.7	170	A9+	A11+	A8+	A8+	A12+
10500 lm	4000 K	64.8	162	32	658	58.6	179	A11+	A12+	A10+	A10+	A12+
12000 lm	2700 K	77.6	155	48	528	69.8	172	A9+	A11+	A8+	A8+	A12+
12000 lm	3000 K	75.5	159	48	514	67.8	177	A10+	A11+	A8+	A8+	A12+
12000 lm	4000 K	72	167	48	490	64.4	186	A11+	A12+	A9+	A9+	A12+